

ROLES AND RESPONSIBILITIES FOR PERMANENT WORKS DESIGN ENGINEER

Reporting to: Associate Director

Purpose of the role:

The APEX Core Engineering provides specialist engineering expertise in the design, review, assurance, and support of permanent works across Statom Group projects. The role ensures permanent works solutions are safe, compliant, buildable, commercially aware, and aligned with client, statutory, and business requirements. The postholder acts as a technical specialist within APEX Core Engineering and supports engineering consistency, governance, and quality across the group.

Key duties and responsibilities

Permanent works design and technical delivery

- Develop, review, and support permanent works designs, calculations, specifications, reports, drawings, and related technical documentation.
- Provide specialist engineering input into permanent structures, foundations, retaining structures, substructures, drainage interfaces, earthworks interfaces, and associated civil engineering works.
- Ensure engineering outputs are technically robust, practical, and appropriate for construction, operation, inspection, maintenance, and long-term performance.
- Assess design assumptions, surveys, site constraints, geotechnical data, loading criteria, and third-party technical information to confirm suitability and completeness.
- Identify technical risks, engineering constraints, design clashes, and buildability issues and develop practical solutions.
- Support permanent works design development through feasibility, concept, detailed design, construction support, and technical close-out.

Engineering assurance and governance

- Ensure permanent works design outputs are prepared, checked, reviewed, approved, and controlled in line with Statom and APEX governance requirements.
- Maintain accurate, traceable, and auditable records of calculations, assumptions, design changes, approvals, and supporting information.
- Ensure compliance with relevant legislation, British Standards, Eurocodes, client specifications, and internal engineering procedures.
- Contribute to engineering assurance activities, design reviews, technical audits, and lessons learned processes.
- Escalate technical concerns, design non-conformance, or engineering risk promptly and support effective resolution.
- Support the development, review, and implementation of engineering standards, templates, standard details, and best practice guidance.

Project and operational support

- Provide specialist technical advice to project teams, site teams, estimators, planners, commercial teams, and senior stakeholders.
- Support tender submissions, methodology development, feasibility reviews, and value engineering exercises from a permanent works perspective.

- Attend design meetings, site visits, coordination meetings, and client or stakeholder meetings where required.
- Respond to technical queries and design changes in a timely, controlled, and clearly documented manner.
- Promote engineering solutions that support safe delivery, compliance, buildability, programme objectives, and commercial performance.

Stakeholder and interface management

- Liaise with internal engineering teams, project delivery teams, clients, consultants, subcontractors, suppliers, and external design partners.
- Coordinate effectively across geotechnical, civil, structural, temporary works, and operational interfaces.
- Communicate technical information clearly and professionally to both technical and non-technical stakeholders.
- Support strong working relationships across Statom Group and promote a collaborative engineering culture.

Professional contribution

- Act as a subject matter specialist in permanent works design within APEX Core Engineering.
- Support and mentor junior engineers, graduates, or other colleagues where appropriate.
- Maintain current knowledge of legislation, standards, engineering developments, and industry best practice.
- Contribute to continuous improvement in engineering quality, consistency, governance, and delivery performance.

Key accountabilities

- Delivery and assurance of safe, compliant, and buildable permanent works designs.
- Effective identification, management, and escalation of engineering risk.
- High standards of technical accuracy, governance, and document control.
- Consistent specialist support to projects and business functions across the group.
- Positive contribution to engineering excellence, technical consistency, and continuous improvement.

Person specification

Essential qualifications

- Degree in Civil Engineering, Structural Engineering, or a related engineering discipline.
- Membership of a relevant professional institution or working towards professional membership.

Desirable qualifications

- Incorporated Engineer or Chartered Engineer status, or demonstrable progress towards this.
- Relevant postgraduate qualification or specialist technical training.

Essential knowledge and experience

- Proven experience in permanent works design within civil engineering, structural engineering, geotechnical engineering, or related construction environments.
- Strong knowledge of relevant design standards, legislation, and engineering principles.
- Experience of producing and reviewing calculations, specifications, drawings, and technical reports.
- Good understanding of construction methods, site constraints, sequencing, and buildability.
- Experience of working with multidisciplinary teams and managing design interfaces.
- Understanding of design risk management and engineering assurance processes.

Desirable knowledge and experience

- Experience in contractor-led design environments.
- Experience supporting tenders, pre-construction activity, and live project delivery.
- Familiarity with infrastructure, ground engineering, foundations, retaining systems, or specialist civil engineering works.
- Experience contributing to engineering standards or technical governance initiatives.

Skills and behaviours

- Strong technical judgement and analytical ability.
- Clear and concise written and verbal communication.
- Practical problem-solving and sound decision-making.
- Strong attention to detail and commitment to accuracy.
- Ability to prioritise workload and manage competing demands.
- Collaborative approach with credibility across engineering and operational teams.
- Commitment to safety, compliance, quality, and continuous improvement.

KPIs / measures of success

- Quality and accuracy of design outputs.
- Timeliness of technical deliverables and responses to queries.
- Compliance with design standards, procedures, and governance requirements.
- Effectiveness in identifying and managing technical risk.
- Contribution to successful project delivery, value engineering, and buildability.
- Positive feedback from internal stakeholders and project teams.
- Contribution to continuous improvement, standardisation, and engineering capability.